

FORM PTO-1449 (Rev. 2-32) THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-1123-H	Serial No. 10/058,626
		Applicant: Cunningham, et al.	
		Filing Date: January 28, 2002	Group: 1645 / 641

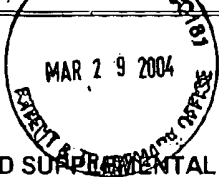
U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

u ↓ u		1.	Statement of Applicants dated May 4, 2004
		2.	Bertoni, et al., "Frequency-Selective Reflection and Transmission by a Periodic Dielectric Layer", <i>IEEE Transactions on Antennas and Propagation</i> , Vol. 37, No. 1, pp. 78-83 (1989)
		3.	Brundrett, et al., "Normal-incidence guided-mode resonant grating filters: design and experimental demonstration", <i>Optics Letters</i> , Vol. 23, No. 9, pp. 700-702 (1998)
		4.	Peng, "Polarization-control Components and Narrow-band Filters Based on Subwavelength Grating Structures" 1996
EXAMINER e. Chin			DATE CONSIDERED 9/27/04

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FORM PTO-1449 (Rev. 2-32)		U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-1123-H	Serial No. 10/058,626
SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			Applicant: Cunningham, et al.	
			Filing Date: January 28, 2002	Group: 1645 1641

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
u	1.	5,801,390	9/1/98	Shiraishi	250	559.3	2/7/97
	2.	5,475,780	12/12/95	Mizrahi	385	37	6/17/93
	3.	4,958,895	9/25/90	Wells, et al.	350	96.12	6/23/89
	4.	6,052,213	4/18/00	Burt, et al.	359	237	3/24/97
	5.	5,210,404	5/11/93	Cush, et al.	250	216	5/19/92
	6.	4,857,273	8/15/89	Stewart	422	68	4/4/86
	7.	5,242,828	9/7/93	Bergström, et al.	435	291	11/9/89
	8.	5,864,641	1/26/99	Murphy, et al.	385	12	4/11/97
	9.	5,337,183	8/9/94	Rosenblatt	359	248	10/20/92
	10.	6,404,554 B1	6/11/02	Lee, et al.	359	576	5/18/00
	11.	6,377,721 B1	4/23/02	Walt, et al.	385	12	3/2/99
	12.	6,587,276 B2	7/1/03	Daniell	359	622	3/17/01
	13.	6,316,153 B1	11/13/01	Goodman, et al.	430	8	4/21/99
	14.	5,814,524	9/29/98	Walt, et al.	436	514	12/14/95
	15.	5,170,448	12/8/92	Ackley, et al.	385	31	1/6/92
u	16.	5,606,170	2/25/97	Saaski, et al.	250	458.1	2/3/95
u	17.	5,156,785	10/20/92	Zdrahala	264	108	7/10/91



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a		Lenau, Torben; <i>Material, Silicon Nitride</i> , 1996, 97, 98
	19.	Cerac, Technical publications: <i>Tantalum Oxide, Ta₂O₅ for Optical Coating</i> , 2000, Cerac, Inc.
EXAMINER <i>e. chin</i>		DATE CONSIDERED <i>9/27/04</i>

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FORM PTO-1449 (R v. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 01-1123-H	Serial No. 10/058,626
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant: Cunningham et al.	
		Filing Date: January 28, 2002	Group: 1645-1641
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U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
u	1.	5,492,840	02/20/96	Malmqvist et al.			

U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Publication Date if Appropriate	Name	Class	Subclass	Filing Date
u	2.	20030027328-A1	6 Feb 2003	Cunningham et al.			
u	3.	20020127565-A1	12 Sept 2002	Cunningham et al.			
u	4.	20030027327-A1	6 Feb 2003	Cunningham et al.			


FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes No
u	5.	WO 02/061429	8 Aug 2002	PCT			

 OTHER DOCUMENTS
 (Including Author, Title, Date, Pertinent Pages, Etc).

u	6.	Cunningham et al., <i>Sensors and Actuators B</i> 85; pp 219-226 (2002).
f	7.	Cunningham et al., <i>Sensors and Actuators B</i> 81; pp 316-328 (2002).
f	8.	Pandey, A. and Mann, M., <i>Nature</i> . 405(6788):837-46 (2000).
f	9.	Patterson, S.D., <i>Current Opinions in Biotechnology</i> , 11(4):413-8 (2000).
u	10.	International Search Report for foreign counterpart application PCT/US03/01175.
EXAMINER C. Chin		DATE CONSIDERED 9/27/04

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 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant: Cunningham, et al.		RECEIVED JUL 21 2003 TECH CENTER 1600/2900	
		Filing Date: January 28, 2002			
		Group: 1645			

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
u	1.	4,876,208	10/24/89	Gustafson et al.	436	531	1/30/87
	2.	4,992,385	2/12/91	Godfrey	436	525	7/22/87
	3.	5,455,178	10/3/95	Fattinger	436	164	5/28/93
	4.	5,478,527	12/26/95	Gustafson et al.	422	82	11/21/94
u	5.	5,738,825	4/14/98	Rudigier et al.	422	82	5/12/97

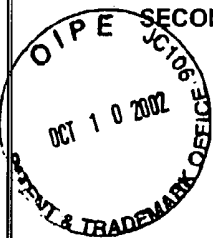
FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.
 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		00-1123-H	10/058,626
		RECEIVED OCT 11 2002	
		Filing Date:	Group:
		January 28, 2002	1645

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclasses	Filing Date if Appropriate
u	1	6,185,019 B1	2/6/01	Hobbs, et al.	359	30	5/14/99
	2	6,088,505	7/11/00	Hobbs	385	147	6/10/97
	3	4,536,608	8/20/85	Sheng, et al.	136	259	4/25/83
	4	5,229,614	7/20/93	Andersoon et al.	250	370.12	3/27/92
u	5	5,559,338	9/24/96	Elliott et al.	250	492.1	10/4/94

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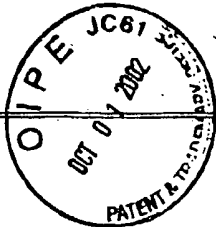
		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

u	6	International Search Report for foreign counterpart PCT/US01/50723
EXAMINER	C. Chi	DATE CONSIDERED
		9/27/04

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(Rev. 2-32)



U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket No.

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Serial No.

10/058,626

**SUPPLEMENTAL INFORMATION DISCLOSURE
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u	1.	4,009,933	03/01/77	Firester	350	152	05/07/95
u	2.	5,598,300	01/28/97	Magnusson, et al.	359	566	06/05/95

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

u	3.	Invitation to Pay Additional Fees in foreign counterpart application PCT/US01/50723
EXAMINER <i>C. Chin</i>		DATE CONSIDERED <i>9/27/04</i>

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INFORMATION DISCLOSURE
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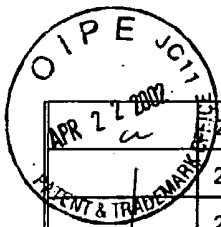
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u	1	4,931,384	6/5/90	Layton, et al.	435	7	10/17/84
	2	5,118,608	6/2/92	Layton, et al.	435	7.1	9/22/89
	3	5,478,756	12/26/95	Gizeli, et al.	436	527	2/8/95
	4	5,496,701	3/5/96	Pollard-Knight	435	7.4	6/2/92
	5	5,598,267	1/28/97	Sambles, et al.	356	369	2/3/95
	6	5,690,894	11/25/97	Pinkel, et al.	422	68.1	5/23/95
	7	5,738,825	4/14/98	Rudigier et al.	422	82.11	7/18/94
	8	5,804,453	9/8/98	Chen	436	518	2/9/96
	9	5,846,843	12/8/98	Simon	436	527	11/18/96
	10	5,925,878	7/20/99	Challener	250	225	8/20/97
	11	5,955,378	9/21/99	Challener	436	525	8/20/97
	12	5,986,762	11/16/99	Challener	356	375	6/15/98
	13	5,994,150	11/30/99	Challener, et al.	436	518	11/19/97
	14	6,035,089	3/7/00	Grann, et al.	385	129	6/11/97
	15	6,100,991	8/8/00	Challener	356	445	6/22/99
	16	6,146,593	11/14/00	Pinkel, et al.	422	68.1	7/24/97
	17	5,442,169	8/15/95	Kunz	250	227.21	4/22/92
	18	5,991,480	11/23/99	Kunz, et al.	385	37	8/7/96
✓	19	6,320,991 B1	11/20/01	Challener, et al.	385	12	10/16/98
u	20	RE37,473 E	12/18/01	Chall ner	250	225	2/3/00



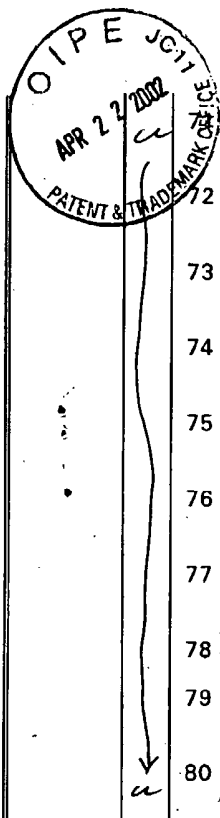
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21	6,346,376 B1	2/12/02	Sigrist, et al.	435	12	5/11/99
22	US 2002/0018610 A1	2/14/02	Challener, et al.	385	12	9/28/01
23	5,691,846	11/25/97	Benson, Jr. et al.	359	530	6/7/95
24	6,076,248	6/20/00	Hoopman, et al.	29	527.1	2/26/99
25	5,175,030	12/29/92	Lu, et al.	428	30	12/8/89
26	4,668,558	5/26/87	Barber	428	156	1/6/86
27	5,771,328	6/23/98	Wortman, et al.	385	146	4/3/97
28	5,268,782	12/7/93	Wenz, et al.	359	81	1/16/92
29	4,576,850	3/18/86	Martens	428	156	7/20/78
30	5,615,052	3/25/97	Doggett	359	811	11/1/94
31	5,792,411	8/11/98	Morris, et al.	264	400	9/28/95
32	5,732,173	3/24/98	Bylander, et al.	385	49	12/12/96
33	4,999,234	3/12/91	Cowan	428	156	6/10/88
34	5,413,884	5/4/95	Koch, et al.	430	5	12/14/92
35	6,338,968 B1	1/15/02	Hefti	436	518	8/2/99
36	6,340,598 B1	1/22/02	Herron, et al.	436	518	12/8/98

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		Document Number							Date	Country	Class	Subclass	Translati n	
													Yes	N
u	37	0	1	1	2	7	2	1	7/4/87	EPO				
/	38	8	4	0	2	5	7	8	7/5/84	PCT				
	39	9	0	0	8	3	1	8	7/26/90	PCT				
	40	2	2	2	7	0	8	9	7/18/90	GB				
	41	0	5	1	7	7	7	7	12/16/92	EPO				
	42	9	1	1	3	3	3	9	9/5/91	PCT				
	43	9	2	2	1	7	6	8	12/10/92	PCT				
	44	9	3	1	4	3	9	2	7/22/93	PCT				
	45	0	6	6	0	9	2	4	7/5/95	EPO				
	46	9	5	0	3	5	3	8	2/2/95	PCT				
	47	9	8	5	7	2	0	0	12/17/98	PCT				
u	48	9	9	0	9	3	9	2	2/25/99	PCT				



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72	Lin, et al., "A Porous Silicon-Based Optical Interferometric Biosensor", Vol. 278, <i>Science</i> , pp. 840-843 (1997)
73	Morhard, et al., "Immobilization of Antibodies in Micropatterns for Cell Detection by Optical Diffraction", <i>Sensors and Actuators B</i> 70, pp. 232-242 (2000)
74	Jenison, et al., "Interference-Based Detection of Nucleic Acid Targets on Optically Coated Silicon", Vol. 19, <i>Nature Biotechnology</i> , pp. 62-64 (2001)
75	Cunningham, et al., U.S. Provisional Patent Application, "Resonant Reflection Microarray", Serial No. 60/244,312 filed October 30, 2000
76	Cunningham, et al., U.S. Provisional Patent Application, "Resonant Reflection Microarray", Serial No. 60/283,314 filed April 12, 2001
77	Cunningham, et al., U.S. Provisional Patent Application, "Resonant Reflection Microarray", Serial No. 60,303,028 filed July 3, 2001
78	Hobbs, et al., "Automated Interference Lithography Systems for Generation of Sub-Micron Feature Size Patterns", <i>SPIE</i> , Vol. 3879, pp. 124-135, September 1999
79	Cunningham, "Introduction to Bioanalytical Sensors", <i>Techniques in Analytical Chemistry</i> , pp. 260-291
80	Challener, et al., "A Multiplayer Grating-Based Evanescent Wave Sensing Technique", <i>Elsevier Science B.B.</i> , pp. 42-46 (2000)
	Huber, et al., "Direct Optical Immunosensing (Sensitivity and Selectivity)", <i>Sensors and Actuators B</i> , 6, pp. 122-126 (1992)

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